

45



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**D6101-015**  
**Job Sheet 203676**



Part No: D6101-015

Job Qty: 12 pcs

Part Name: Saddle Billet



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/25/19

Job Tracking No:

Due Date: 2/12/20

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV B IPP RevA: New issue DD verified by:EC

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation                     | Qty    | Start Date | Due Date | Standard Setup Hrs | Run Hrs | Workcenter/Supplier    | Sign-off |
|-------|-------------------------------|--------|------------|----------|--------------------|---------|------------------------|----------|
| 100   | Purchasing                    | 12 pcs |            | 2/12/20  | 0.00               | 0.00    | Purchasing - 1         |          |
|       |                               |        |            |          |                    |         | Purchasing - 2         |          |
|       |                               |        |            |          |                    |         | Purchasing - 3         |          |
| 110   | Packaging 2-1 - Receive - B4B | 12 pcs |            | 2/12/20  | 0.00               | 0.00    | Packaging 2 - 1 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 2 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 3 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 5 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 4 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 6 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 7 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 8 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 9 - B4B  |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 10 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 11 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 12 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 13 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 14 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 15 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 16 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 17 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 18 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 19 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 20 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 21 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 22 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 23 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 24 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 25 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 26 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 27 - B4B |          |
|       |                               |        |            |          |                    |         | Packaging 2 - 28 - B4B |          |



Container No: S236054



Part: D6101-015

Job No: 203676

Serial No/Batch: S236054

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Date: 11/29/19

Plex 11/25/19 10:45 AM Dart.lajeunesse.marie

|                                 |        |         |           |  |                        |            |
|---------------------------------|--------|---------|-----------|--|------------------------|------------|
|                                 |        |         |           |  | Packaging 2 - 29 - B4B |            |
|                                 |        |         |           |  | Packaging 2 - 30 - B4B |            |
|                                 |        |         |           |  | Packaging 2 - 31 - B4B |            |
|                                 |        |         |           |  | Packaging 2 - 32 - B4B |            |
|                                 |        |         |           |  | Packaging 2 - 33 - B4B |            |
|                                 |        |         |           |  | Packaging 2 - 34 - B4B |            |
|                                 |        |         |           |  | Packaging 2 - 35 - B4B |            |
|                                 |        |         |           |  | Packaging 2 - 36 - B4B |            |
| 120 QC 18                       | 12 pcs | 2/12/20 | 0.00 0.00 |  | QC 18 - 12             |            |
|                                 |        |         |           |  | QC 18 - 14             |            |
|                                 |        |         |           |  | QC 18 - 22             |            |
|                                 |        |         |           |  | QC 18 - 25             | DAS        |
|                                 |        |         |           |  | QC 18 - 48             | 81         |
|                                 |        |         |           |  | QC 18 - 58             | 9-89       |
|                                 |        |         |           |  | QC 18 - 61             |            |
|                                 |        |         |           |  | QC 18 - 9              |            |
|                                 |        |         |           |  | QC 18 - 81             |            |
| 130 Packaging 3-1 - Stock - B4B | 12 pcs | 2/12/20 | 0.00 0.00 |  | Packaging 3 - 1 - B4B  | Bn 19-1203 |
|                                 |        |         |           |  | Packaging 3 - 2 - B4B  |            |
|                                 |        |         |           |  | Packaging 3 - 3 - B4B  |            |
|                                 |        |         |           |  | Packaging 3 - 4 - B4B  |            |
|                                 |        |         |           |  | Packaging 3 - 5 - B4B  |            |
|                                 |        |         |           |  | Packaging 3 - 6 - B4B  |            |
|                                 |        |         |           |  | Packaging 3 - 7 - B4B  |            |
|                                 |        |         |           |  | Packaging 3 - 8 - B4B  |            |
|                                 |        |         |           |  | Packaging 3 - 9 - B4B  |            |
|                                 |        |         |           |  | Packaging 3 - 10 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 11 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 12 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 13 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 14 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 15 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 16 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 17 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 18 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 19 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 20 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 21 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 22 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 23 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 24 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 25 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 26 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 27 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 28 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 29 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 30 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 31 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 32 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 33 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 34 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 35 - B4B |            |
|                                 |        |         |           |  | Packaging 3 - 36 - B4B |            |
| 140 QC 21 - SA                  | 12 pcs | 2/12/20 | 0.00 0.00 |  | QC 21 - SA - 21        | DAS        |
|                                 |        |         |           |  | QC 21 - SA - 70        | 21         |
|                                 |        |         |           |  | QC 21 - SA - 53        | 9-89       |

NOV 29 2019

Bn 19-1203

DEC 03 2019

Part Op 100 - Issue P/O: \_\_\_\_\_ b) 9.450" x 6.250" x 2.50" thick (+0.030 / -0.000) d) Grain direction along 9.450"

Descriptions: length

110 - (Receive & Inspect for Damage & Mat'l Certs), Ensure material certification is attached



120 - (QC18 In-Coming Inspection Material), Ensure Material certification comply to Dwg D6101  
130 - (Identify as per dwg & Stock Location: \_\_\_\_\_), LOCATION: MAT045  
140 - (QC21- Final Inspection - Work Order Release)

**Job BOM**

| Part / Item | Component Name  | Quantity      | Operation      | Container |
|-------------|-----------------|---------------|----------------|-----------|
| D6101-015P  | Aluminum Billet | 12 pcs (1 ea) | 100-Purchasing | S236035   |

**Job Allocations**

| Operation      | Component Part | Required | Inventory | Allocated |
|----------------|----------------|----------|-----------|-----------|
| 100-Purchasing | D6101-015P     | 12       | 0         | 0         |

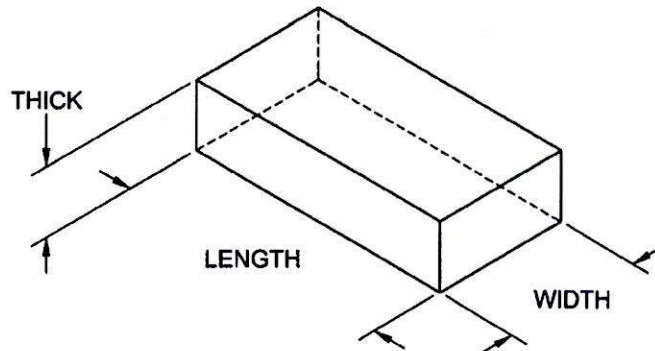
**Part Specifications**

Specifications could not be found.

Plex 11/25/19 10:45 AM Dart.lajeunesse.marie

LINE 1 D6101-015

## SPECIFICATION CONTROL DRAWING



SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 203676 MWS

19-11-25

PURCHASE MATERIAL ACCORDING TO THE FOLLOWING TABLE. SPECIFY ALLOY, LENGTH x WIDTH x THICK (+0.030/-0.000), AND GRAIN DIRECTION AS SHOWN.

TOLERANCES ON ALL DIMENSIONS ARE +0.030/-0.000.

ALL DIMENSIONS ARE IN INCHES.

B ACCEPTABLE SPECIFICATIONS FOR 7075-T7351 ALUMINUM ARE AMS-QQ-A-250/12, QQ-A-250/12, OR ASTM B209 WBS

| Part No.                                                                | Alloy                    | Length | Width | Thick | Grain Direction    |
|-------------------------------------------------------------------------|--------------------------|--------|-------|-------|--------------------|
| D6101-001                                                               | 7075-T7351 (QQ-A-250/12) | 6.000  | 6.250 | 2.000 | Along 6.000 Length |
| D6101-003                                                               | 7075-T7351 (QQ-A-250/12) | 7.875  | 6.250 | 2.000 | Along 7.875 Length |
| D6101-005                                                               | 7075-T7351 (QQ-A-250/12) | 5.000  | 8.250 | 2.500 | Along 5.000 Length |
| D6101-007                                                               | 7075-T7351 (QQ-A-250/12) | 7.750  | 8.250 | 2.500 | Along 7.750 Length |
| D6101-009                                                               | 7075-T7351 (QQ-A-250/12) | 8.700  | 8.250 | 2.500 | Along 8.700 Length |
| D6101-011                                                               | 7075-T7351 (QQ-A-250/12) | 9.700  | 8.250 | 2.500 | Along 9.700 Length |
| D6101-013                                                               | 7075-T7351 (QQ-A-250/12) | 10.100 | 8.250 | 2.500 | Along 10.10 Length |
| <span style="border: 1px solid black; padding: 2px;">B</span> D6101-015 | 7075-T7351 (QQ-A-250/12) | 9.450  | 6.250 | 2.500 | Along 9.450 Length |
| D6101-017                                                               | 7075-T7351 (QQ-A-250/12) | 6.350  | 6.250 | 2.250 | Along 6.350 Length |
|                                                                         |                          |        |       |       |                    |
|                                                                         |                          |        |       |       |                    |

WBS  
Jm

RELEASED

09/07/15/WB

|            |                                     |                                                                                                                                                                                                                                                                                         |              |
|------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| B          | ADDED D6101-015/-017, ADD ASTM B209 | RF                                                                                                                                                                                                                                                                                      | 09.04.23     |
| A          | NEW ISSUE                           | CP                                                                                                                                                                                                                                                                                      | 01.03.30     |
| REV.       | DESCRIPTION                         | BY                                                                                                                                                                                                                                                                                      | DATE         |
| DESIGN     | CP                                  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                |              |
| DRAWN      | RF                                  |                                                                                                                                                                                                                                                                                         |              |
| CHECKED    | <i>[Signature]</i>                  | DRAWING NO.                                                                                                                                                                                                                                                                             | REV. B       |
| MFG. APPR. | <i>[Signature]</i>                  | D6101                                                                                                                                                                                                                                                                                   | SHEET 1 OF 1 |
| APPROVED   | <i>[Signature]</i>                  | TITLE                                                                                                                                                                                                                                                                                   | SCALE        |
| DE APPR.   | <i>[Signature]</i>                  | SADDLE BILLET, 7075                                                                                                                                                                                                                                                                     | NTS          |
| DATE       | 09.04.23                            | COPYRIGHT © 2001 BY DART AEROSPACE LTD<br><small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |              |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                               |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)                  |  |
| <b>Description Work Order Deviation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                   | <b>Disposition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>Completed By</b>           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <b>Lead hand / Supervisor</b> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <b>QC / QA Coordinator</b>    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                               |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                               |  |





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **POHB045206**



**Supplier:** MEC002-VU  
Metaux Castle  
P.O. Box 4090 Stn A  
Toronto  
ON  
M5W OE9 Canada

**PO No:** POHB045206

**PO Date:** 11/25/19

**Due Date:** 12/16/19

**Purchase Order  
Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
Phone: 613-623-5200 Ext: 242  
Fax: 613-632-1053  
clavoie@dartaero.com

**Via:** Ground

**Pymt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

NOV 26 2019

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

## **Items**

| Line Item           | Job    | Part       | Drawing | Supplier Part No | Description                                             | Status | Account | Due Date | Order Quantity | Received Quantity      | Balance | Unit Price (USD)  | Extended Price |
|---------------------|--------|------------|---------|------------------|---------------------------------------------------------|--------|---------|----------|----------------|------------------------|---------|-------------------|----------------|
| 1                   | 203676 | D6101-015P | D6101   | 72741            | Aluminum Billet : Various STC's As per Dwg D6101 Rev. B | Firmed | -       | 12/16/19 | 12 pcs         | 0 pcs                  | 12 pcs  | \$57.20/pcs       | \$686.40       |
|                     |        |            |         |                  |                                                         |        |         |          |                | 603<br>12<br>pcs<br>CL |         | NOV 29 2019       |                |
| 2                   | 203677 | D6101-017P | D6101   | 72740            | Aluminum Billet : Various STC's As per Dwg D6101 Rev. B | Firmed | -       | 12/16/19 | 12 pcs         | 0 pcs                  | 12 pcs  | \$32.64/pcs       | \$391.68       |
|                     |        |            |         |                  |                                                         |        |         |          |                | 12 pcs<br>603<br>UM    |         | NOV 29 2019       |                |
| <b>Grand Total:</b> |        |            |         |                  |                                                         |        |         |          |                |                        |         | <b>\$1,078.08</b> |                |

## **Order Notes**

### **Procurement Quality Clauses**

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable). No Raw Metals from China or Soviet Bloc Countries. (DFARS)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program.

A049 supplier awareness.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 11/25/19 2:00 PM Dart.Lavoie.Chantal

**Castle Metals®**

A. M. Castle &amp; Co.

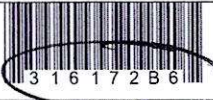
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:4050173

|                                                                                                    |                       |                                                                                        |  |                                                                                         |  |                                                                                              |  |
|----------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|
| <b>Ship From:</b><br>A. M. CASTLE & CO.<br>2150 ARGENTIA ROAD<br>MISSISSAUGA, ON L5N<br>2K7<br>CAN |                       | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA |  | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7 CAN |  | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |  |
| <b>Date Shipped</b>                                                                                | <b>Inco Terms</b>     | <b>Freight Terms</b>                                                                   |  | <b>Carrier</b>                                                                          |  | <b>BOL No</b>                                                                                |  |
| 27-NOV-19                                                                                          | FCA HAWKESBURY ON CAN | Prepay & Add                                                                           |  | LOCAL_FLEET                                                                             |  | 4050173-6                                                                                    |  |

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Shipment Details</b> | <b>Final Destination Branch - TOR</b> |
|-------------------------|---------------------------------------|

|                   |                    |                                                                                                                                                                                                                                                          |                                                                                                                |             |            |             |                  |
|-------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|------------------|
| Order No          | Line No            | Item No                                                                                                                                                                                                                                                  | Description                                                                                                    |             |            |             |                  |
| 5666753           | 1                  | 72741                                                                                                                                                                                                                                                    | 2.5000.PL.7075.T7351.ALUMINUM.GRAIN TO RUN ALONG 9.4500<br>IN.6.2500.9.4500<br>SPECIFICATIONS: AMS-QQ-A-250/12 |             |            |             |                  |
| Purchase Order No |                    | Part Number                                                                                                                                                                                                                                              |                                                                                                                | Ordered Qty |            | Invoice Qty |                  |
| POHB045206        |                    | YOUR ITEM NUMBER:<br>D6101-015                                                                                                                                                                                                                           |                                                                                                                | 12.00 PCS   |            | 12.00 PCS   |                  |
| Details           |                    | ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S<br>Email P/s and certs to: clavoie@dartaero.com<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS |                                                                                                                |             |            |             |                  |
| Delivery No.      | Mill               | Heat Number                                                                                                                                                                                                                                              | Mech Id                                                                                                        | PCS         | Width (IN) | Length (IN) | Shipped Qty(LBS) |
| 123006115         | KAISER<br>ALUMINUM | <br>316172B6                                                                                                                                                          |                                                                                                                | 12          | 6.2500     | 9.4500      | 183.2544         |

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Date Printed: 27-NOV-2019 03:52:46 PM





**Castle Metals®**

A. M. Castle & Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 2 of 2

Reviewed by Authorized Castle Metals Representative:



Date:

Name:

NOV 27 2019



|                                                                                               |
|-----------------------------------------------------------------------------------------------|
| SHIP TO:<br>A M CASTLE & CO<br>3050 SOUTH HYDRAULIC<br>WICHITA, KS 67216                      |
| SOLD TO:<br>AM CASTLE & CO- SOLD TO<br>1420 KENSINGTON RD<br>SUITE 220<br>OAK BROOK, IL 60523 |

# KAISER ALUMINUM

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108

15000 E Euclid, Spokane Valley WA 99216

Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number

4564754

|                                            |                           |                                 |                                      |                                             |
|--------------------------------------------|---------------------------|---------------------------------|--------------------------------------|---------------------------------------------|
| CUSTOMER PO NUMBER:<br>493845-1            | WORK PACKAGE:             | CUSTOMER PART NUMBER:<br>752241 | SHIP RUN/LOAD:<br>104618/42          | GOV'T CONTRACT NUMBER:                      |
| KAISER ORDER NO:<br>1281979-1              | SHIP DATE:<br>10-MAY-2019 | ALLOY:<br>7075                  | CLAD:<br>BARE                        | TEMPER:<br>T7351                            |
| PRODUCT DESCRIPTION:<br>KaiserSelect Plate |                           |                                 |                                      |                                             |
| WEIGHT SHIPPED:<br>7146 LB<br>(3241.4 KG)  | QUANTITY:<br>4 PCS EST.   | TRUCK B/L #:<br>2080808         | GAUGE:<br>2.5000 IN<br>(63.5000 MM)  | DIAMETER/WIDTH:<br>48.500 IN<br>(1231.9 MM) |
|                                            |                           |                                 | LENGTH:<br>144.500 IN<br>(3670.3 MM) |                                             |

MHU 2338732: LOT 316172B6: 2 pieces;

MHU 2338733: LOT 316172B6: 2 pieces;

### Certified Specifications

AMS 4078/RevK

ASTM B 209/Rev14

BSS 7055/RevB

DPS 4.713/RevAK

GSS16100/RevG/Amd1

PS 21211/RevP

AMS-QQ-A-250/12/RevA

ASTM B 594/Rev13

CMMP 025/RevV

EAC MS1011/RevE

MMS 159/RevT

AMS-STD-2154/RevC

BAC 5439/RevJ

CSTI 006/RevE

GAMPS 9101/RevB/AmdSCN1

PPS 20.04/Rev7

Test Code: 4297

Lot: 316172B6

Cast 840

Drop 13

Test Results

Ingot 1

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

|          |        |                  |                            |                            |              |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| Tensile: | Temper | Dir / # Tests    | Ultimate KSI (MPA)         | Yield KSI (MPA)            | Elongation % |
|          | T7351  | LT / 2 (Min:Max) | 71.6 : 71.7<br>(494 : 494) | 60.0 : 60.1<br>(414 : 414) | 13.0 : 13.3  |

(ASTM E1004)

(EN 2004-1)

|                      |          |          |
|----------------------|----------|----------|
| Conductivity %IACS : | 41.5 Min | 41.6 Max |
| (MS/M) :             | 24.1 Min | 24.1 Max |

(ASTM E1251)

|             |      |      |     |      |     |      |     |      |      |      |          |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Chemistry:  | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | V    | ZR   | OTHER    |
| Actual(wt%) | 0.06 | 0.13 | 1.5 | 0.02 | 2.5 | 0.20 | 5.7 | 0.02 | 0.01 | 0.01 | TOT 0.03 |



# KAISER ALUMINUM

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108  
15000 E Euclid, Spokane Valley WA 99216  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4564754

### ALLOY LIMITS

|          | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | V    | ZR   | OTHER | MAX  |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| 7075     |      |      |     |      |     |      |     |      |      |      |       |      |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH  | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT   | 0.15 |

Aluminum Remainder

### ORDER COMMENTS

AMC CA-15413B R 10

7055

### TEST NOTES

Metal represented by this test report was 100% Type I  
(immersion) ultrasonically tested from one side with 3mm  
dead zones top and bottom and meets the Class A and Class B  
requirements of all specifications referenced on this test  
report. No surface marking of sonic indications is  
performed.

### CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

\* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

\* All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.

\* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.

\* has been thermally processed in compliance with AMS 2772, where applicable.

\* is mercury free, within the limits of detection of ASTM E1215 (< 1 ppm).

\* is in compliance with RoHS 2, European Union Directive 2011/65/EU.

\* is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.

\* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

\* is free of weld repair.

\* meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



*Michael Peske*

Michael Peske, PT Lab Process Engineer



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: D6101-015  
 DATE: 2019-11-28

PO / BATCH NO.: P04B045206/  
S236035

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 12 PCS  
 QUANTITY INSPECTED: 12 PCS  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.500  
 THICKNESS RECEIVED: 2.500  
 SHEET SIZE ORDERED: 6.250x9.450  
 SHEET SIZE RECEIVED: 6.250x9.450

| DESCRIPTION                                     | NCR<br>(Check Y/N)                 |                                    | COMMENTS     |
|-------------------------------------------------|------------------------------------|------------------------------------|--------------|
| SURFACE DAMAGE                                  | Y                                  | <input checked="" type="radio"/> N |              |
| CORRECT FINISH                                  | <input checked="" type="radio"/> Y | N                                  |              |
| CORROSION                                       | Y                                  | <input checked="" type="radio"/> N |              |
| CORRECT GRAIN DIRECTION                         | <input checked="" type="radio"/> Y | N                                  |              |
| CORRECT MATERIAL PER M-DRAWING                  | <input checked="" type="radio"/> Y | N                                  | ASTM B209    |
| CORRECT THICKNESS                               | <input checked="" type="radio"/> Y | N                                  |              |
| PHOTO REQUIRED                                  | Y                                  | <input checked="" type="radio"/> N |              |
| CORRECT REF # TO LINK CERT                      | <input checked="" type="radio"/> Y | N                                  | H/T 31617236 |
| CORRECT MATERIAL IDENTIFICATION                 | <input checked="" type="radio"/> Y | N                                  |              |
| CORRECT M# ON THE MATERIAL                      | <input checked="" type="radio"/> Y | N                                  |              |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y                                  | <input checked="" type="radio"/> N |              |
| DOES THIS REQUIRE AN EXTRUSION REPORT           | Y                                  | <input checked="" type="radio"/> N |              |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |         |
|------------------------------------------------------------------------------------|-----|-----|-------|-------|---------|
|                                                                                    | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL                                                                   |     |     |       |       |         |
| SIZE OF TEST SAMPLE                                                                |     |     |       |       |         |
| HARDNESS / DUROMETER READING                                                       |     |     |       |       |         |

testers located in the Quality Office

| QC 18 INSPECTION                 |                   | ENGINEERING SIGNOFF (if required) |  |
|----------------------------------|-------------------|-----------------------------------|--|
| INSPECTED BY: <u>[Signature]</u> | DAS<br>81<br>9-89 | SIGNED OFF BY: _____              |  |
| DATE: <u>2019-11-28</u>          | Vm.               | DATE: _____                       |  |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in